PATENT ABSTRACTS OF JAPAN

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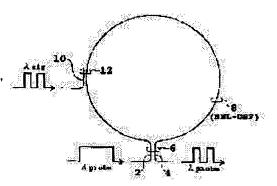
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(54) OPTICAL GATE DEVICE, PRODUCTION OF THIS DEVICE AND SYSTEM HAVING THIS DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to use a relatively short optical fiber as a nonlinear optical medium with respect an optical gate device, a process for producing this device and a system having this device.

SOLUTION: This gate device comprises an optical coupler 6 including directionally coupled optical paths 2, 4, a loop optical path 8 connecting these optical paths 2, 4 and an optical path 10 directionally coupled to this loop optical path 8. The optical fiber constituting part or the whole of the loop optical path 8 is so formed as to have a nonlinear coefft. sufficiently large to shorten its length to the extent that the optical fiber has a polarization plane maintaining capability.



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